



DESCRIPTION

The Fiberfrax[®] Ceramic Fibre Felt products are manufactured using Fiberfrax[®] refractory ceramic fibres blended with specially selected organic binders to give flexible felts with exceptional characteristics. Our advanced felting process ensures lightweight, high strength product enhanced by low thermal conductivity and exceptional handling characteristics.

The various blends of refractory ceramic fibres used in manufacturing process provides a comprehensive range of felts with operating temperature limits upto 1425°C. Fiberfrax[®] Ceramic Fibre Felts products are available in wide range of thicknesses & sizes.

GENERAL CHARACTERISTICS

Fiberfrax[®] Ceramic Fibre Felt has the following outstanding characteristics :

- High temperature stability
- Low thermal conductivity
- High resiliency
- Light weight
- Excellent Flexibility
- Easy to wrap, cut and shape
- Asbestos free

TYPICAL APPLICATIONS

- Blast furnace, Stoves, Tundish, Ladle, Hot metal Cars, Troughs
- Back-up insulation & Hot air ducts / Pipes
- Automotive / Industrial heat shields and Silencer insulation
- Expansion joints
- Asbestos substitute

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

*greener
cleaner
safer*
specialty fibers for
a greener, cleaner, safer world

Unifrax India Private Limited (Formerly Unifrax India Limited)

C-102, Business Square, Andheri-Kurla Road, Andheri (East), Mumbai-400 093

T:+91 (22) 2921 2200 / 201 | F:+91 (22) 2921 2249 | unifrax.mumbai@unifrax.com | www.unifrax.com

UNIFRAX

TYPICAL PRODUCT PARAMETERS

Fiberfrax [®] Ceramic Fibre Felt	Z	S
Typical Chemical Analysis (wt.%)		
Al ₂ O ₃	30 - 34	42 - 46
SiO ₂	50 - 55	54 - 58
ZrO ₂	14 - 18	-
Fe ₂ O ₃ + TiO ₂	< 0.5	< 0.5
Loss on Ignition (wt.%)	< 10	< 10
Physical Properties		
Colour	White	White
Paper Type	DS	DS
Classification Temperature (°C)	1425	1260
Melting Point (°C)	> 1760	> 1760
Density (kg/m ³)	128 / 160 / 192	128 / 160 / 192
Tensile Strength (kPa)	> 250	> 250
Thermal Conductivity (W/mK)		
Mean Temp.		
400 °C	0.06	0.06
600 °C	0.08	0.08
800 °C	0.12	0.12
1000 °C	0.16	0.16
Permanent Linear Shrinkage (%) 24 Hour Soak		
1250 °C	-	< 4.0
1400 °C	< 4.0	-

AVAILABILITY

Thickness (mm)	Roll Size (mm)	Sheet Size (mm)	Sheets per Carton
3	1220 x 20000	1000 x 1000	20
4	1220 x 15000	1000 x 1000	15
5	1220 x 12000	1000 x 1000	12
6	1220 x 10000	1000 x 1000	10
8	-	500 x 1000	16
10	-	500 x 1000	14
12	-	500 x 1000	10
18	-	500 x 1000	6
25	-	500 x 1000	4

Other thicknesses / sizes may be available on request subject to minimum order requirements.

Thermal Conductivity figures are empirical values (average) based on experience.

Classification temperature refers to the maximum short term temperature limit. The maximum continuous use limit depends upon application conditions. For certain applications continuous use temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Unifrax Engineering office.

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Supplied by:

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation. Further information and advice on specific details of the products described should be obtained in writing from a Unifrax Corporation company (Unifrax India). Unifrax maintains a continuous programme of product development and reserves the right to change product specifications without prior notice. Therefore, it maintains at all times the responsibility of the customer to ensure that Unifrax materials are suitable for the particular purpose intended. Similarly, insofar as materials not manufactured nor supplied by Unifrax are used in conjunction with or instead of Unifrax materials, the customer should ensure that all technical data and other information relating to such materials has been obtained from the manufacturer or supplier. Unifrax accepts no liability arising from the use of such materials. All sales made by a Unifrax Corporation company are subject to that company's Terms and Conditions of Sale, copies of which are available on request.